

## VARIETY TEST.

Plot.	Variety.	Crop per Acre.	
		Roots.	Tops.
	Yellow-fleshed— <i>continued.</i>		
14	Montgomery's Aberdeen Green-top Yellow .. ..	Tons. 14-28	Tons. 0-81
15	„ Aberdeen Purple-top Yellow .. ..	15-50	2-45
16	„ Fosterton Hybrid .. ..	16-32	2-04
17	„ Green-top Yellow Tankard .. ..	19-99	2-45
18	Nimmo and Blair's Challenger.. ..	14-28	0-81
	White-fleshed—		
19	Garton's Hardy Green Globe .. ..	22-85	2-04
20	Sutton's Red Paragon .. ..	24-89	2-45
21	„ Early Six Weeks .. ..	17-09	1-63
22	„ Purple-top Mammoth .. ..	18-77	1-21
23	„ Pomeranian White Globe .. ..	16-76	1-63
24	„ Imperial Green Globe .. ..	16-32	0-46
25	Montgomery's White Stone .. ..	20-81	0-81
26	„ Devonshire Greystone .. ..	22-03	1-63
27	„ Lincolnshire Red Globe .. ..	26-11	2-04

Inspector Manning reports: The experiments were initiated under favourable conditions, the land being in perfect order. The grub did some damage to the plants in their early growth. The weather was unfavourable from 1st January to date of harvesting, being too cold and wet. The crop was free from fungoid disease.

## WAIMATE DISTRICT.

*Manurial and Variety Test, conducted by G. Reynolds, Willowbridge.*

The land selected was a sandy loam on a clay subsoil. It was in grass three years prior to 1910 when ploughed and crop of turnips taken. For present experiment it was skim-ploughed and tine-harrowed in October, 1911; rolled, ploughed 6 in. deep, tine-harrowed, disc-harrowed, tine-harrowed, rolled, and again tine-harrowed several times and thrown into raised drills during the first half of November, 1911. In the manurial test the area was divided into seven manurial plots and one unmanured as a test plot. Plots one-tenth acre each. The fertilizers applied were according to a scheme designed by the Chief Agricultural Chemist. The variety of seed sown was Fosterton Hybrid. In the variety test 1 cwt. superphosphate per acre was applied. The seeds and fertilizers were sown in raised drills on 15th November, 1911; drills 28 in. apart. The roots were pulled and weighed on 30th May, 1912. Results:—

## MANURIAL TEST.

Plot.	Manures per Acre.	Cost per Acre.	Weight of Crop per Acre.		Effect of Manuring.	
			Roots.	Tops.	Gain.	Tons.
		£ s. d.	Tons.	Tons.		
1	Superphosphate, 1½ cwt. ..	0 7 2	16-42	2-32	Gain,	6-42
2	Superphosphate, 3 cwt. ..	0 14 3	19-82	3-21	„	9-82
3	Superphosphate, 2 cwt.; bone-dust, ¾ cwt. ..	0 14 0	17-67	2-85	„	7-67
4	No manure .. ..	..	10-00	1-42	..	..
5	Same as No. 3 mixture; sulphate of potash, 28 lb. ..	0 17 9	16-60	2-14	Gain,	6-60
6	No. 5 mixture, 1½ cwt. ..	0 8 11	18-57	2-32	„	8-57
7	Same as No. 6 mixture; salt, 14 lb. ..	0 9 2	15-00	2-32	„	5-00
8	Albatross guano, 2 cwt. ..	0 10 0	19-97	2-32	„	9-97